

ABSTRACT

A hydraulic stepless transmission comprises a first hydraulic system which has first plungers and a swash plate which the first plungers abut on, and a second hydraulic system which has second plungers and a swash plate which the second plungers abut on. In a cylinder block, first and second plunger holes which contain first and second plungers respectively, a hydraulic closed circuit which connects the first and second plunger holes, and distributing valve holes which contain distributing valves which switch a flow direction of hydraulic fluid in the circuit are formed. A shaft, which extends through the cylinder block, and the cylinder block synchronously rotate. The first and second plunger holes are formed in parallel to the shaft respectively. The swash plate of the second hydraulic system is rotatably supported around the shaft. The shaft is supported by a combined thrust and radial bearing and a radial bearing on both sides of the cylinder block, respectively.